

Claims

1. A photo-curable resin composition containing (A) a cyclic acetal compound, (B) an epoxy compound, and (C) a photocationic polymerization initiator.
2. A photo-curable resin composition containing (A) 5 to 80 wt% of a cyclic acetal compound, (B) 94.9 to 20 wt% of an epoxy compound, and (C) 0.1 to 10 wt% of a photocationic polymerization initiator (provided that total of the components (A), (B), and (C) is 100 wt%).
3. A photo-curable resin composition containing (A) 10 to 40 wt% of a cyclic acetal compound, (B) 89.8 to 60 wt% of an epoxy compound, and (C) 0.2 to 6 wt% of a photocationic polymerization initiator (provided that total of the components (A), (B), and (C) is 100 wt%).
4. A photo-curable resin composition according to any one of claims 1 to 3, wherein the cyclic acetal compound (A) is at least one kind selected from the group consisting of: trioxane; 1,3-dioxolane; 1,3-dioxane; 1,4-butanediol formal; and diethylene glycol formal.
5. A photo-curable resin composition according to any one of claims 1 to 3, wherein the epoxy compound (B) is (i) an epoxycyclohexyl group-containing compound and/or (ii) a glycidyl group-containing compound.
6. A photo-curable resin composition according to claim 5, wherein

the epoxy compound (B) further contains an epoxy polymer compound having a number average molecular weight of 1,000 to 20,000 in terms of polystyrene as measured by GPC.

7. A photo-curable resin composition according to any one of claims 1 to 3, wherein the photocationic polymerization initiator (C) is an aromatic onium salt.

8. A photo-curable resin composition according to claim 7, wherein the aromatic onium salt is a triarylsulfonium salt.

9. A photo-curable resin composition according to any one of claims 1 to 3, further containing (d) a polyol having 2 or more hydroxyl groups in one molecule besides the components (A), (B), and (C).

10. A photo-curable resin composition according to claim 9, wherein the polyol (d) is a polyol having 2 to 6 hydroxyl groups in one molecule.

11. A photo-curable resin composition according to any one of claims 1 to 3, further containing an ethylenically unsaturated monomer (e) and a photo-radical polymerization initiator (f) besides the components (A), (B), and (C).

12. A photo-curable resin composition according to any one of claims 1 to 3, further containing a photosensitizer (g) besides the components (A), (B), and (C).

13. A photo-curable resin composition according to any one of claims 1 to 3, having a viscosity (25°C) of 50 to 2,000 mPa·s.

14. A cured product obtained by photo-curing a photo-curable resin composition according to any one of claims 1 to 3.
15. A cured product obtained by photo-curing a photo-curable resin composition according to claim 4.
16. A cured product obtained by photo-curing a photo-curable resin composition according to claim 5.
17. A cured product obtained by photo-curing a photo-curable resin composition according to claim 6.
18. A cured product obtained by photo-curing a photo-curable resin composition according to claim 7.
19. A cured product obtained by photo-curing a photo-curable resin composition according to claim 8.
20. A cured product obtained by photo-curing a photo-curable resin composition according to claim 9.